## **SIEMENS**

Data sheet 3LD2150-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, knob-operated mechanism, Red / yellow, central mounting 22.5 mm of the handle

Model			
product brand name	SENTRON		
product designation	3LD Switch disconnector		
design of the product	EMERGENCY-STOP switch		
display version for switch position indicator manual operation	1 ON - 0 OFF		
type of switch	front mounted		
design of the actuating element	selector switch		
color of the actuating element	red		
design of handle	knob-operated mechanism, red/yellow		
type of the driving mechanism motor drive	No		
General technical data			
number of poles	3		
size of switch disconnector	2		
mechanical service life (operating cycles) typical	100 000		
electrical endurance (operating cycles)			
• at AC-23 A at 690 V	6 000		
operating frequency maximum	50 1/h		
degree of pollution	3		
Voltage			
insulation voltage rated value	690 V		
surge voltage resistance rated value	6 kV		
operating voltage			
<ul> <li>at AC rated value</li> </ul>	690 V		
operating frequency rated value			
• minimum	50 Hz		
• maximum	60 Hz		
Protection class			
protection class IP	IP65		
degree of protection NEMA rating	1, 3R, 4X, 12		
protection class IP on the front	IP65		
Dissipation			
power loss [W] for rated value of the current at AC in hot operating state per pole	1.1 W		
Current			
operational current rated value	25 A		
operational current			
<ul> <li>at 40 °C rated value</li> </ul>	25 A		
<ul> <li>at 45 °C rated value</li> </ul>	25 A		
<ul> <li>at 50 °C rated value</li> </ul>	25 A		
<ul> <li>at 55 °C rated value</li> </ul>	25 A		

at AC rated value	25 A
Main circuit	
operational current	
at AC-21 at 690 V rated value	25 A
• at AC-21 A at 240 V rated value	25 A
• at AC-21 A at 400 V rated value	25 A
<ul> <li>at AC-21 A at 440 V rated value</li> </ul>	25 A
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	20 A
operating power	
<ul><li>at AC-23 A at 240 V rated value</li></ul>	5 kW
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	10 kW
<ul> <li>at AC-23 A at 440 V rated value</li> </ul>	9.5 kW
<ul><li>at AC-23 A at 690 V rated value</li></ul>	10 kW
<ul> <li>at AC-3 at 240 V rated value</li> </ul>	4 kW
• at AC-3 at 400 V rated value	8 kW
at AC-3 at 690 V rated value	7.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum	500 V
continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use	V
main switch     witch disconnector	Yes
switch disconnector     FMEDCENCY OFF switch	Yes
EMERGENCY OFF switch     September 1997	Yes Yes
safety switch     maintenance/repair switch	Yes
maintenance/repair switch     Product details	165
product feature can be looked into OFF position	Voc
product feature can be locked into OFF position	Yes
accessories	Yes
accessories product extension optional	
accessories  product extension optional  motor drive	No
accessories  product extension optional  motor drive  voltage trigger	No No
accessories  product extension optional  motor drive	No
accessories  product extension optional	No No
product extension optional	No No 2
product extension optional	No No 2
product extension optional	No No 2 2 0
product extension optional	No No 2 2 2 0 2 4 6 mm
product extension optional	No No 2 2 0
product extension optional	No No 2 2 0 2 4 6 mm
product extension optional	No No 2 2 0 2 4 6 mm
product extension optional	No No 2 2 0 2 4 6 mm
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA
product extension optional  motor drive voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection at 690 V by gG fuse rated value let-through current with closed switch at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA
product extension optional         • motor drive             • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection             • at 690 V by gG fuse rated value let-through current with closed switch             • at 240 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 240 V for combination switch + gG fuse maximum             • at 240 V for combination switch + gG fuse maximum             • at 240 V for combination switch + gG fuse maximum             • at 240 V for combination switch + gG fuse maximum	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA
product extension optional	No No 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA 5 kA 4 kA 5 kA 6 kA 6 kA 6 kA 7 kA 7 kA 7 kA 8
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA
product extension optional         • motor drive             • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum number of bracket locks maximum hasp thickness of the bracket locks  Short circuit  conditional short-circuit current with line-side fuse protection             • at 690 V by gG fuse rated value let-through current with closed switch             • at 240 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum             • at 690 V for combination switch + gG fuse maximum	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 5 kA 5 kA 5 kA 5 kA 5 kA 6 kA 7 kA 7 kA 8
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 4 kA 5 kA 4 kA 5 kA 6 kA 6 kA 6 kA 6 kA 7 kA 7 kA 7 kA 8
product extension optional	No No 2 2 2 0 2 4 6 mm  50 kA 3.5 kA 3.5 kA 4 kA 4 kA 5 kA 5 kA 5 kA 5 kA 5 kA 6 kA 7 kA 7 kA 8

operational current at AC according to UL 508/UL 60947-4 1-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [In] at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL 508/UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC at 490 V according to UL control operating voltage at AC according to UL	according UL			
SoarUL 60947 '4-1 rated value active power [hp] at AC at 80 V according to UL 508/UL 60947 '4-1 rated value active power [hp] at AC at 800 V according to UL 508/UL 60947 '4-1 rated value short-time withstand current (SCCR) at 600 V according to UL 508/UL 508/UL 50947 '4-1 continuous current of upstream fuse according to UL rated value lype of fuse according to UL 7000		25 A		
active power (Pip) at AC at 800 V according to UL 508/UL 60947-4-1 rated value short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1 rated value short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1 rated value short-time withstand current of upstream fuse according to UL 700 Pip (SMUL 60947-4-1)	operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V		
### Source		10		
UL 508/UL 60947-4-1 continuous current of upstream fuse according to UL rated value type of fuse according to UL  Connections  AWG number as coded connectable conductor cross section sold		15		
value type of fuse according to UL  Connections  AWG number as coded connectable conductor cross section solid  maximum  minimum  type of connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing stranded type of electrical connection for an unine current circuit for auxiliary contacts  Machanical Design  height flept fle		5 kA		
AWG number as coded connectable conductor cross section solid  • maximum  • minimum  type of connectable conductor cross-sections for copper conductor  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  • stranded  type of clerical connection  • for auxiliary contacts  • solid  • finely stranded with core end processing  • stranded  type of electrical connection  • for main current circuit  • for auxiliary contacts   Machanical Design  Height  width  depth  type of device fastening method  fastening method  fastening method  fastening method  fastening method  • 4-hole front mounting  • 4-dhole front mounting  • 186 g  Environmental conditions  ambient temperature during operation  • minimum  • maximum  • 25 °C  ambient temperature during storage  • minimum  • 225 °C  ambient temperature during storage  • minimum  • maximum  • 225 °C  ambient temperature during storage  • minimum  • maximum  • 25 °C  ambient temperature during storage  • minimum  • maximum  • maximum  • maximum  • maximum	·	50 A		
AWG number as coded connectable conductor cross section solid  maximum  minimum  min	type of fuse according to UL	RK5		
section solid  maximum ype of connectable conductor cross-sections for copper conductor  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid  finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts  solid finely stranded with core end processing xtranded xtrandem xtranded xtranded xtrandem xtranded xtrandem xtranded xtranded xtrandem xtranded xtranded xtranded xtranded xtranded xtranded xtrandem xtranded xt	Connections			
minimum type of connectable conductor cross-sections for copper conductor solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded type of connectable conductor cross-sections for auxiliary contacts solid finely stranded with core end processing stranded finely stranded with core end processing stranded type of electrical connection for auxiliary contacts   **On main current circuit for auxiliary contacts  **Mechanical Design  **Mechanical Design  **Methanical Design				
type of connectable conductor cross-sections for copper conductor  • solid  • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing of including the processing of including of includin	• maximum	8		
conductor  • solid  • finely stranded with core end processing  • stranded type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  • solid  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  type of electrical connection  • for main current circuit  • for auxiliary contacts   Mechanical Design  Height  width  depth  type of device fastening method fastening method fastening method  • 4-hole front mounting  • front mounting with central attachment  • rail mounting  met weight  ### About the control of the con	• minimum	14		
• finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded 2x (0.75 1.5 mm²), 1x 2.5 mm² • stranded type of electrical connection • for main current circuit • for auxiliary contacts    Mechanical Design				
stranded type of connectable conductor cross-sections for auxiliary contacts     solid	• solid			
type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded type of electrical connection • for main current circuit • for auxiliary contacts    Note				
contacts  • solid  • finely stranded with core end processing  • stranded  type of electrical connection  • for main current circuit  • for auxiliary contacts   Mechanical Design  height width depth type of device fastening method  • 4-hole front mounting • front mounting er main mounting net weight  Environmental conditions  ambient temperature during operation  • minimum • -25 °C		1x (1,516mm²)		
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary contacts</li> <li>Mechanical Design</li> <li>height width depth type of device fastening method fastening method fastening method  - 4-hole front mounting - front mounting with central attachment - rail mounting net weight</li> <li>186 g</li> <li>Environmental conditions</li> <li>ambient temperature during storage - minimum - 25 °C - maximum - maximum</li> <li>minimum - 25 °C - maximum - 25 °C - maximum</li> <li>maximum</li> <li>55 °C</li> </ul>				
stranded     type of electrical connection         for main current circuit         for auxiliary contacts				
type of electrical connection				
		2x (0.75 2.5 mm²), 1x 4 mm²		
for auxiliary contacts      Mechanical Design  height width depth type of device fastening method fastening method	· ·			
height width 49 mm depth 113.5 mm type of device fixed mounting fastening method  • 4-hole front mounting No • front mounting No • rail mounting No net weight 186 g  Environmental conditions  ambient temperature during operation • minimum -25 °C • maximum • maximum 555 °C				
height width 49 mm  depth type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • minimum • maximum • 55 °C		connection terminals		
width depth type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum  • maximum  • maximum  -25 °C				
depth type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during storage • minimum • -25 °C • maximum • maximum • maximum • maximum • maximum • maximum • 55 °C	<u> </u>			
type of device fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum • minimum • minimum • conditions  -25 °C ambient temperature during storage • minimum • minimum • conditions -25 °C -25 °C -25 °C -25 °C -25 °C				
fastening method fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • maximum • maximum  minimum • c25 °C  ambient temperature during storage • minimum • maximum • maximum	·			
fastening method  • 4-hole front mounting • front mounting with central attachment • rail mounting net weight  Environmental conditions  ambient temperature during operation • minimum • maximum • maximum  55 °C  ambient temperature during storage • minimum -25 °C  ambient temperature during storage • minimum -25 °C  -25 °C		<u> </u>		
<ul> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>net weight</li> <li>186 g</li> </ul> Environmental conditions <ul> <li>ambient temperature during operation</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> • maximum <ul> <li>55 °C</li> </ul>		Built-iii utilt lixeu-iiloutiteu versioti		
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> <li>net weight</li> <li>186 g</li> </ul> Environmental conditions <ul> <li>ambient temperature during operation</li> <li>minimum</li> <li>maximum</li> <li>maximum</li> <li>55 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> ambient temperature during storage <ul> <li>minimum</li> <li>-25 °C</li> </ul> 55 °C <ul> <li>maximum</li> <li>55 °C</li> </ul>	3	No		
<ul> <li>rail mounting</li> <li>net weight</li> <li>186 g</li> <li>Environmental conditions</li> <li>ambient temperature during operation</li> <li>minimum</li> <li>maximum</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>	=			
net weight  Environmental conditions  ambient temperature during operation  • minimum  • maximum  • maximum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	<u> </u>			
Environmental conditions  ambient temperature during operation  • minimum  • maximum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C	•			
ambient temperature during operation  • minimum  • maximum  55 °C  ambient temperature during storage  • minimum  -25 °C  • maximum  55 °C				
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>-25 °C</li> <li>maximum</li> <li>55 °C</li> </ul>				
<ul> <li>maximum</li> <li>ambient temperature during storage</li> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>	- ·	-25 °C		
ambient temperature during storage				
<ul> <li>minimum</li> <li>maximum</li> <li>55 °C</li> </ul>				
		-25 °C		
General Product Approval	• maximum	55 °C		
	General Product Approval			



Confirmation







Miscellaneous

General Product Approval	Declaration of Conformity	Test Certificates	Marine / Shipping
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Marine / Shipping

other



Environmental Confirmations **Miscellaneous** 

## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2150-0TK13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3LD2150-0TK13

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

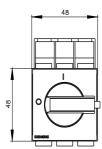
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2150-0TK13

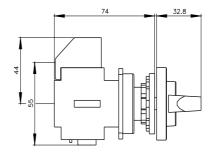
**CAx-Online-Generator** 

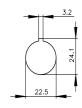
http://www.siemens.com/cax

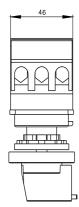
**Tender specifications** 

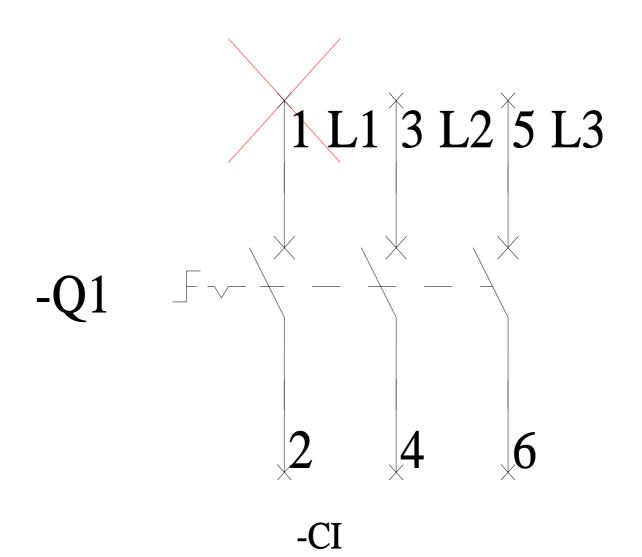
http://www.siemens.com/specifications

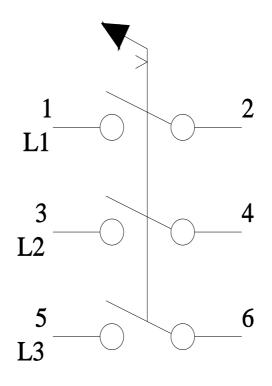












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